

1 ABSTRACT OF THE DISCLOSURE

2 Friction stir processing (FSP) provides a hardened golf club face that more efficiently
3 transfers momentum between the golf club and the ball, increasing the launch velocity so as to
4 provide increased loft (for a given distance traveled by the ball). The FSP hardened face is also
5 more resistant to wear so that the golf club provides more consistent performance and lasts
6 longer. A practice club having a friction stir processed sweet spot on the face may enable the
7 golfer to feel whether the ball has been hit by the sweet spot.